

We Claim:

1. A printing press for one-sided or two-sided printing of a sheet, comprising a transfer cylinder disposed in a travel direction of the sheet between a first and a second impression cylinder, respectively, of two printing units, and a sheet support assigned to said transfer cylinder for receiving the sheet thereon before the sheet is transferred to the second impression cylinder, an inverting drum disposed in the travel direction of the sheet between said sheet support and the second impression cylinder, said inverting drum serving for picking up the sheet from said sheet support and transporting the sheet to the second impression cylinder.

2. The printing press according to claim 1, wherein said sheet support has a movable slide provided with a gripper for firmly holding one edge of the sheet, said slide being movably retained between said transfer cylinder and said inverting drum.

3. The printing press according to claim 2, wherein said transfer cylinder has a gripper for transferring the sheet in-register from said transfer cylinder to said gripper of said slide.

4. The printing press according to claim 1, wherein said sheet support has a suction device formed with a suction

opening, said suction opening being disposed in a region of an upper side of said sheet support.

5. The printing press according to claim 2, wherein said slide has a toothed rack via which said slide is drivable.

6. The printing press according to claim 1, including a registration device assigned to said sheet support, said registration device having a stop for braking the moving sheet and moving the sheet, in-register, for transferring the sheet to said gripper of said inverting drum.

7. The printing press according to claim 6, wherein said slide has an upper and a lower toothed rack, and is drivable in an upper path via said lower toothed rack and in a lower path via said upper toothed rack.

8. The printing press according to claim 6, including at least one drivewheel for formlockingly engaging in said toothed rack and moving said slide.

9. The printing press according to claim 8, including a gear train, and wherein said drivewheel is connected via a coupling to said gear train.

10. The printing press according to claim 6, including two overturning wheels, and further including a guide element via which one end of said slide is guidable in a first guide path, and, via one of said overturning wheels, said other end of said slide is movable, symmetrically to said first guide path, into a second path of motion.

11. A method for two-sided printing of a sheet in a printing press having a transfer cylinder which is disposed in a travel direction of the sheet between a first and a second impression cylinder, respectively, of two printing units, and having a sheet support disposed in the travel direction between the transfer cylinder and the second impression cylinder, the sheet being placed on the sheet support before the sheet is transferred to the second impression cylinder, which comprises assigning an inverting drum to the sheet support; moving the sheet on the sheet support from a conveyor system to the inverting drum; and having the inverting drum pick up the sheet and guide the sheet to the second impression cylinder.

12. The method according to claim 11, which includes transferring the sheet, in-register, from the transfer cylinder to the conveyor system; and transferring the sheet, in-register, from the conveyor system to the inverting drum.